

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) An information providing system comprising:

a user terminal, comprising:

a' a condition-notifying-connection state transmitting part, which is activated in a user terminal connecting to said information providing system via a network, for notifying to transmit of a condition-connection state of the user terminal; and

a server, which is connected to the user terminal via a network, the server comprising:

a providing part for providing to provide the condition-notifyingconnection state transmitting part to the user terminal along with information to fulfill that is in accordance with a request of the user terminal; and

a session management part for managingto manage session information and to provide information to the user terminal in accordance withaccording to the condition-connection state of the user terminal, wherein the session management part receives the connection state of the user from that is notified by the condition-notifyingconnection state transmitting part activated in the user terminal;

so that a session between the information providing system and the user terminal is established when the user is authenticated in accordance with authentication information from the user terminal and the session information managed by said session management part.

2. (CURRENTLY AMENDED) The information providing system as claimed in claim 1,

wherein said session management part is comprised of a first management program;
and

wherein said condition-notifyingconnection state transmitting part, which is always activated in the user terminal, comprises a terminal session establishing part for establishing a session, which is used to notify of the conditiontransmit the connection state to the server, by the first management program.

3. (CURRENTLY AMENDED) The information providing system as claimed in claim 1,

wherein said session management part is comprised of a second management program that is activated by an execution indication from outside and comprises a ~~condition-connection state~~ information management part for managing ~~condition-connection state~~ information indicating a ~~condition-connection state~~ of the user terminal; and

wherein said ~~condition-notifyingconnection state transmitting~~ part activated in the user terminal comprises a ~~condition-connection state~~ information providing part providing the execution indication and the ~~condition-connection state~~ information indicating the ~~condition connection state~~ of the user terminal to the second management program, and

so that wherein said session management part manages a session, which is used to provide information to the user terminal, in accordance with the ~~condition-connection state~~ information managed by the ~~condition-connection state~~ information management part that is activated by the execution indication from said ~~condition-notifyingconnection state transmitting~~ part.

4. (CURRENTLY AMENDED) The information providing system as claimed in claim 1,

wherein said ~~condition-notifyingconnection state transmitting~~ part activated in the user terminal comprises:

an event monitoring part for monitoring an event concerning request information sent from the user terminal to another system; and

an event ~~notifying-transmitting~~ part for ~~notifying-transmitting~~ said session management part of the event concerning request information, which is sent from the user terminal to another ~~systemserver~~, when the event is detected, and

so that wherein said session management part releases the session when the event is ~~notified-transmitted~~ from the event ~~notifying-transmitting~~ part of the user terminal.

5. (CURRENTLY AMENDED) The information providing system as claimed in claim 1,

wherein said session management part comprises a confirmation part for sending a confirmation notification in a predetermined period to check whether the user terminal is connected through the session so that said session management part manages the session in

accordance with a response from the user terminal to the confirmation notification; and
wherein said ~~condition notification~~ connection state transmitting part activated in the user terminal comprises a response part for sending a response notification indicating whether the user terminal is connected through the session or not, to the session management part in response to the confirmation notification sent from the session management part.

a' 6. (CURRENTLY AMENDED) The information providing system as claimed in claim 3, wherein said session management part manages the session based on whether the ~~condition connection state~~ information is provided from the user terminal within a predetermined period or not.

7. (CURRENTLY AMENDED) A method for providing information comprising the steps of:

(a) ~~notifying-transmitting of a condition connection state of a user terminal to a server via a network, which notifying is activated in the user terminal connecting to a server via a network;~~

(b) providing the ~~step~~ capability to perform operation (a) from the server to the user terminal along with information that is in accordance with to fulfill a request of the user terminal; and

(c) managing session information in the server to provide information to the user terminal ~~in accordance with~~ according to the condition connection state of the user terminal ~~notified by the step (a) activated in the user terminal;~~

~~so that a session between the server and the user terminal is established when the user is authenticated by the server in accordance with authentication information from the user terminal and the session information managed in the step (c).~~

8. (CURRENTLY AMENDED) The method as claimed in claim 7, wherein said step operation (a) activated in the user terminal comprises the steps of:

(f) monitoring an event concerning request information sent from the user terminal to another ~~system~~ server; and

(g) notifying the server of the event concerning request information sent from the user terminal to another ~~system~~ server when the event is detected,

~~so that~~ wherein said step operation (c) in the server releases the session when the event is notified from the step operation (g) in the user terminal.

9. (CURRENTLY AMENDED) The method as claimed in claim 7,
wherein said step-operation (c) comprises ~~the steps of~~ sending a confirmation notification
in a predetermined period to check whether the user terminal is connected ~~through~~ throughout
~~the a session, and~~
~~so that~~ wherein said step-operation (c) manages the session in accordance with a
response from the user terminal to the confirmation notification.

10. (CURRENTLY AMENDED) The method as claimed in claim 7, wherein said step
operation (c) manages the session based on whether the ~~condition~~ connection state information
is provided from the user terminal to the server within a predetermined period ~~or not~~.

11. (NEW) The information providing apparatus of claim 1, further comprising:
a session establishing part for establishing a session between the information providing
system and the user terminal when the user is authenticated in accordance with authentication
information from the user terminal and the session information managed by the session
management part.

12. (NEW) The method of claim 7, further comprising:
establishing a session between the information providing system and the user terminal
when the user is authenticated in accordance with authentication information from the user
terminal and the session information managed by the session management part.

13. (NEW) A method of managing user authentication in a server, comprising:
receiving a user ID and a password from a user and authenticating the user;
storing a session ID that corresponds to the user ID in a management table;
transmitting the session ID and a monitoring applet to the authenticated user's client;
receiving screen event information from the monitoring applet in the user's client; and
releasing the session ID when it is determined that the user's client is no longer
accessing the server.

14. (NEW) The method of claim 13, further comprising determining that the user's
client is no longer accessing the server when the screen event information indicates that the

user's client has requested a screen from another server.

15. (NEW) The method of claim 13, further comprising:

starting an existence check timer when a screen is sent to the user's client;

transmitting an existence check data to the user's client when the existence check timer expires before any screen event information is received from the monitoring applet in the user's client;

determining that the user's client is still accessing the server when an existence response data is received from the user's client in response to the existence check data; and

determining that the user's client is no longer accessing the server when no existence response data is received from the user's client in response to the existence check data.

a! 16. (NEW) The method of claim 13, further comprising:

starting an existence check timer when a screen is sent to the user's client;

determining that the user's client is still accessing the server when an existence report data is received from the user's client before the existence check timer expires; and

determining that the user's client is no longer accessing the server when no existence report data is received from the user's client before the existence check timer expires.

17. (NEW) A machine-readable medium that provides instructions for managing user authentication in a server, which, when executed by a machine, cause the machine to perform operations comprising:

receiving a user ID and a password from a user and authenticating the user;

storing a session ID that corresponds to the user ID in a management table;

transmitting the session ID and a monitoring applet to the authenticated user's client;

receiving screen event information from the monitoring applet in the user's client; and

releasing the session ID when it is determined that the user's client is no longer accessing the server.

18. (NEW) The machine-readable medium of claim 17, wherein the instructions cause the machine to perform operations further comprising determining that the user's client is no longer accessing the server when the screen event information indicates that the user's client has requested a screen from another server.

19. (NEW) The machine-readable medium of claim 17, wherein the instructions cause the machine to perform operations further comprising:

starting an existence check timer when a screen is sent to the user's client;

transmitting an existence check data to the user's client when the existence check timer expires before any screen event information is received from the monitoring applet in the user's client;

determining that the user's client is still accessing the server when an existence response data is received from the user's client in response to the existence check data; and

determining that the user's client is no longer accessing the server when no existence response data is received from the user's client in response to the existence check data.

20. (NEW) The machine-readable medium of claim 17, wherein the instructions cause the machine to perform operations further comprising:

starting an existence check timer when a screen is sent to the user's client;

determining that the user's client is still accessing the server when an existence report data is received from the user's client before the existence check timer expires; and

determining that the user's client is no longer accessing the server when no existence report data is received from the user's client before the existence check timer expires.
